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Yamaha TTR 50 PowerCore4™ Installation

Thank you for purchasing FMF's PowerCore4™ muffler for your **Yamaha TTR 50**. We have spent countless hours of R & D and testing to insure you receive the highest quality product on the market today.

All FMF's products are developed using the most current design and manufacturing technologies available. We use only the highest quality materials for function and durability. The PowerCore4™ muffler is constructed of an extruded aluminum canister with a TIG welded stainless steel mandrel bent mid-pipe. Tru-Flo modular endcaps are fitted to both ends and uses space age sound-absorbing packing material.

The PowerCore4™ muffler is specifically engineered as a free flowing exhaust with substantial weight savings over the stock muffler. Bolt on FMF performance and FEEL THE POWER!

Check out our website at www.fmfracing.com for more information.

Please read all instructions thoroughly before installation. Failure to follow all installation instructions completely will void any FMF warranty implied or otherwise. FMF Racing will not be held responsible for problems derived from improper installation and/or improper usage.

Before you begin installing this product, be sure you are wearing **eye protection** and gloves. You should have a complete understanding of how to remove and replace your stock exhaust. Otherwise, you should have it installed by a professional mechanic. Keep all OEM parts when removing your stock exhaust, as some parts may be necessary to install the FMF exhaust depending on your particular application.

PARTS SUPPLIED

- (1) PowerCore4 Muffler
- (1) Aluminum Spacer
- (1) 8mm x 35mm Bolt

TOOLS REQUIRED

- 10mm Wrench
- 12mm Wrench
- Phillips Screwdriver
- Contact Cleaner
- WD-40®
- High Temp Silicone

REMOVAL

OEM = Original Equipment Manufacturer

1. Make sure the engine is completely cool prior to installation and the vehicle is in a stable position.
2. Remove the lower heat shield from the header. Keep the hardware and outer shield for later use.
3. Remove the upper heat shield from the header. Keep the hardware and shield for later use.
4. Remove the two (2) header flange nuts at the front of the motor. Keep for later use.
5. While holding the muffler/header, loosen and remove the OEM muffler mounting bolt.
6. Carefully remove the muffler/header from the engine. Make sure to keep the existing exhaust port gasket. This will be reused if in good condition. Replace if cracked, torn or in poor condition.

PRE-INSTALLATION

7. Using contact cleaner, clean the exhaust port where the header attaches.

INSTALLATION

8. Insert the OEM exhaust port gasket into the exhaust port. Apply a thin bead of High Temp Silicone to both sides of the gasket for an improved seal.
9. Install the FMF header onto the exhaust port using the OEM nuts and loosely tighten.
10. Use the supplied 8mm x 35mm bolt to attach the muffler mount to the frame with the supplied aluminum spacer between the subframe and the muffler mount. Do not fully tighten at this time.
11. Attach the outside lower and upper heat shield using the stock OEM bolts and insulating washers. Do not fully tighten at this time.
12. Make sure the header and muffler are in neutral positions and not binding. Slowly tighten all mounting fasteners and clamps to OEM specified torque specs, starting from the front and working your way back.
13. Inspect the complete exhaust to make sure there is no contact with the frame, shock spring, engine, body panels or any cables, hoses or wiring. The exhaust system should only be in contact with the exhaust port and mounting points. Confirm all controls operate in accordance with the manufacturer's specifications.

POST-INSTALLATION

14. We recommend using High Temp Silicone for an improved seal. Please follow instructions for the Silicone and allow sufficient time to dry before starting the engine.
15. Start the engine and bring it up to operating temperature. Check for exhaust leaks.
16. Let engine cool completely and re-torque all mounting hardware to the manufacturers specifications.

MAINTENANCE

To clean your FMF muffler, allow to cool and use mild soap and water. Do not spray water onto a hot exhaust. Dry completely to prevent streaking. We recommend using mild soap and water on the muffler canister to prevent streaking and uneven discoloration.

We recommend repacking your FMF muffler after every 20-30 hours of normal use when properly jetted. This will maintain peak performance and keep that race tone. Water will ruin the packing. Cover the exhaust outlet when washing your machine. Repack your muffler if water enters into the chamber. We have various packing materials to choose from. We also recommend cleaning the spark arrestor screen (if equipped) gently using a wire brush after every 30 hours of use.

To repack the muffler, remove the allen screws from the front of the muffler using an allen wrench. Do not remove the rear endcap. Gently slide out the front mid pipe from the muffler canister. You may need to use a rubber or plastic mallet to lightly tap it out. Be careful not to damage the muffler. Unwrap the packing from the core and discard. Wrap the core with new packing and secure with a strip of 1/2" masking tape. Do not pack too tightly, as this will hamper performance and increase the sound level. Before re-installing the inner core assembly, apply a thin layer of high temp silicone on the front endcap where the aluminum canister slips over. Slide inner core assembly into canister making sure the perforated core fully seats in the rear endcap. Wipe off any excess silicone. Re-install the allen screws until snug or tighten 1/4 turn after the screw makes contact with the canister.

DISCLAIMER: All products manufactured and/or distributed by FMF Racing are a) intended for use on stock vehicles specific to the U.S. market; b) for closed course use only unless otherwise stated and c) not intended to meet emission regulations for use on public lands, roads or access routes – consult with local jurisdictions. FMF Racing makes no claims as to the products applicability, effectiveness or fitment on modified machines. FMF Racing is the sole determiner of abuse, misuse, installation errors and modifications. We assume no liability for any errors in listings, specifications, part numbers, prices or model applications. We reserve the right to change specifications, product descriptions, product quality, pricing and application at any time without notice and without further obligation. Buyer assumes all risk for any and all damage caused to themselves, a third party and/or property by virtue of failure of these products. By installing and/or using an FMF product, you hereby accept and understand these stated terms and conditions and have followed all instructional steps.